

ENGINE FAILURE TAKEOFF (NOT AIRBORNE)

Sufficient Runway Remaining

1. Throttle – CLOSED
2. Brakes – APPLY
3. Stop Straight Ahead

Insufficient Runway Remaining

1. Throttle – Closed
2. Brakes – APPLY MAX
3. Mixture – IDLE CUT OFF
4. Fuel Selector – OFF
5. Master Switch – OFF
6. Magneto's – OFF

Maintain directional control, maneuver to avoid obstacles.

ENGINE FAILURE TAKEOFF (IF AIRBORNE)

Sufficient Runway Remaining

1. Airspeed – **120 Kts.**
2. Land straight ahead

Insufficient Runway Remaining

1. Airspeed – **120 Kts.**
2. Throttle – CLOSED
3. Mixture – OFF
4. Prop – LOW RPM
5. Master Switch – OFF
6. Magneto's – OFF
7. Flaps – AS REQUIRED
8. Maintain directional control and make only shallow turns to avoid obstacles.

BEST GLIDE CONFIGURATION

1. Gear – UP
2. Flaps – UP

3. Propeller – LOW RPM
4. Airspeed – 120 kts.

Best demonstrated glide is .75 NM per 1000 ft. 120 kts, 1570 FPM, glide ratio 7.7:1

ENGINE FAILURE TAKEOFF (RETURN TO AIRPORT)

1. Airspeed – **120 kts.**
2. Fuel Selector – FULLEST TANK
3. Mixture – RICH
4. Throttle – INTERMEDIATE SETTING
5. Magneto's – CYCLE, then BOTH
6. Boost Pump – HIGH (to check for engine driven fuel pump failure)
7. Flaps (Final) – AS REQUIRED

ENGINE FAILURE (IN FLIGHT)

1. Establish Best Glide – **120 kts.**
2. Landing Site – BEST SUITABLE
3. Air Start - ATTEMPT
4. Unable to start – PROP LOW RPM SETTING
5. Fuel Selector – CHECK TO FULLEST TANK
6. Boost pump – HIGH (momentarily)
7. Throttle – INTERMEDIATE
8. Magneto's – CYCLE, then BOTH
9. Radio – 121.5 DECLAIR EMERGENCY
10. Transponder – 7700

OFF AIRPORT LANDING

1. Seat Belts / Harnesses – TIGHT
2. Door Seal – DEFLATE
3. Gear – AS REQUIRED
4. Boost Pump – OFF
5. Fuel Selector – OFF
6. Magneto's – OFF
7. Flaps – DOWN
8. Master Switch – OFF
9. Airspeed – DECREASE TO TOUCHDOWN

ROUGH RUNNING ENGINE

1. Mixture – RICH
2. Boost Pump (+10,000) – LOW
3. Magneto's – CYCLE then BOTH
4. Mixture – ADJUST

ENGINE FIRE IN FLIGHT ELECTRICAL

1. Avionics Master Switch – OFF
2. Master Switch – OFF
3. All Electrical Equipment – OFF
4. **If fire / smell goes away, turn master switch ON, then each item one at a time trying to isolate the cause of the fire. If cause cannot be determined LAND AS SOON AS ABLE!**

If Fire Continues

1. Throttle – IDLE
2. Mixture – CUT OFF
3. Fuel Selector – OFF
4. Boost Pump – OFF
5. **Land immediately and exit the aircraft as soon as possible**

ENGINE FIRE DURING START

1. Starter – CONTINUE CRANKING
2. Mixture – IDLE CUT OFF
3. Throttle – FULL OPEN
4. Boost Pump – OFF
5. Fuel Selector – OFF

LOSS OF PRESSURIZATION

1. Oxygen Mask – ON IN 5 Sec
 2. Aircraft Control – REGAIN, MAINTAIN
 3. Emergency Decent – INITIATE
- If Cabin door is unsecured:**
1. Do not attempt to correct in flight
 2. Oxygen masks – ON
 3. Emergency Decent – INITIATE
 4. Cabin – DEPRESSURIZE
 5. Aircraft – LAND AS SOON AS POSSIBLE

Do not attempt to check door until aircraft is depressurized and on the ground.

EMERGENCY DECENT

1. Throttle – IDLE
 2. Speed Brakes – DEPLOY
 3. Propeller – HIGH RPM
 4. Airspeed – 170 kts – 274 kts
- Caution do not exceed V_{NE}**

PROPELLER OVER SPEED

1. Throttle – REDUCE
2. Airspeed – SLOW TO REGAIN RPM CONTROL
3. Oil Pressure – CHECK
4. Oil Quantity - CHECK
5. Control Regained – ADD POWER

6. Airspeed – BELOW WHICH OVERSPEED OCCURED
7. Engine – MONITOR
8. Aircraft – LAND, DETERMINE PROBLEM

ALTERNATOR FAILURE

1. Master Switch – OFF
2. Avionics – OFF
3. Lights – OFF
4. Circuit Breaker – CHECK / RESET
5. Master Switch – ON
6. Essential Elements – ON, ONE AT A TIME
7. Problem – ISOLATE

SPEED BRAKES DEPLOYED

1. Speed Brake – CYCLE
- If still deployed:**
2. Circuit Breaker – PULL
- If still deployed:**
3. Landing airspeed – 110 kts.
- If only one side deployed**
4. Landing Airspeed – 110 kts.

EMERGENCY GEAR EXTENSION

1. Airspeed – BELOW 120 kts
 2. Gear Motor Circuit Breaker – PULLED
 3. Gear Handle – DOWN
 4. Emer Hand Pump – PUMP
- Pump handle until main gear lights are GREEN and handle is stiff.

EMERGENCY SPEED REDUCTION

1. Throttle – IDLE
2. Aircraft – NOSE UP

3. Speed Brakes – DEPLOY
4. Gear – EXTEND BELOW 150 kts
5. Flaps – EXTEND BELOW 132 kts.

AIRCRAFT OPERATING + SPEEDS KCAS

V_{NE} - Red Line	274
Caution Range	220 - 274
V_A - Maneuvering	170
V_{NO} – Green Arc	69 - 220
$V_{FE} - 0$ to 10 Deg.	174
V_{FE} – White Arc	61 - 132
V_X – Best Angle	110
V_Y – Best Rate	135
V_S - Clean	69
V_{SO}	61
V_{LO} - down	150
V_{LO} - up	120
V_{LE}	165
Max X-Wind	25

OIL TEMPERATURE DEG. F.

Maximum	240
Caution Range	210 - 240
Operating Range	160 - 200
Takeoff Minimum	100

OIL PRESSURE PSI.

Maximum	100
Caution Range	10 - 30
Normal Range	30 - 60
Minimum	10

Lancair IVP